

Abstract of the disclosure.

A spline lubrication apparatus is disclosed for lubricating a spline of a pump drive. The
5 apparatus includes a housing and a rotatable spline disposed within the housing. The spline includes
a shaft having a first and a second end and an external surface extending between the first and second
ends of the spline, the external surface defining a plurality of longitudinally extending splines. A
gear is rotatably supported within the housing, the gear including an internally splined bore for the
rotatable reception therein of the rotatable spline. The arrangement is such that the rotatable spline
10 extends through the bore with the plurality of splines intermeshing with the internally splined bore.
A bearing has a first and a second extremity, the bearing being disposed between the gear and the
housing for bearingly supporting the gear for rotation within the housing. Also, a shield is disposed
adjacent to one of the extremities of the bearing for diverting a portion of a flow of lubricant flowing
through the bearing so that the portion of the flow of lubricant flows through the bore between the
15 plurality of splines and the intermeshing internally splined bore for inhibiting fretting corrosion of
the intermeshing splines and splined bore.